

# PATENT SPECIFICATION

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DRAWINGS ATTACHED.

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## COMPLETE SPECIFICATION.

### Pipe Couplings.

I, REX ROBINSON ROSS, of Oxstalls Farm, Evesham, in the County of Worcester, a British Subject, do hereby declare the invention for which I pray that a Patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a pipe coupling for coupling a pipe to another component (such as another pipe) and has for an object the provision of a pipe coupling in a convenient form.

In accordance with the invention a pipe coupling comprises a socket adapted sealingly to receive the end of the pipe and adapted to be sealingly connected to another component, a resilient sealing ring in the sleeve adapted to provide a seal between the pipe and the sleeve and a resilient clip adapted to be engaged with the pipe and with said other component so as to tend to twist the pipe about an axis perpendicular to the length thereof.

Reference will now be made to the accompanying drawing in which:—

Figure 1 is a side view showing an example of a pipe coupling according to the invention;

Figure 2 is a section showing the coupling only partially assembled and

Figure 3 is a plan view of a clip forming a part of the coupling.

In an example of the invention a pipe coupling includes a socket 10 adapted at its ends to receive a pipe end 14. The socket 10 is formed at two axially spaced positions with an internal annular groove 11 in each of which is mounted a resilient sealing ring in the form of an 'O' ring 12. The socket also has an internal rib 13 which serves to limit insertion of the pipe ends 14.

The coupling also includes a resilient clip 15 which, in the example described is of generally channel-shaped form. Each side of

the channel is in the form of an annulus and in the unstressed condition (as shown in Figure 2) the sides are outwardly inclined from the base. The base of the channel is formed with an aperture 15a.

In use, one side of the clip 15 is placed over the end of one of a pair of pipes to be coupled together and this end is inserted into one end of the socket. The end of the other pipe is then inserted through the other side of the clip 15 and, by deforming the clip 15, the pipes are aligned and the end of the other pipe is inserted into the other end of the socket.

The clip now tends to turn each of the pipes about axes perpendicular to their lengths so that the pipes tend to skew in the socket. Moreover, where the material of the clip 15 will (e.g. steel) is harder than the material of the pipes 14 (e.g. aluminium or an alloy thereof) the clip 15 will bite into the surface of the pipes. Thus removal of the pipes from the sleeve is hindered considerably by the clip.

If it should be required to remove a pipe from the sleeve it is only necessary to deform the clip 15 until its sides are parallel and then pull the pipe free.

The clip can be used to mount the coupled pipes on a suitable support, a screw or nail extending through the aperture in the base of the clip being used for this purpose.

It is to be understood that the invention can be applied to elbow couplings, T-couplings and couplings of other shapes as well as to the straight coupling described. It may also be applied to the coupling of pipes to valves, taps and other components.

### WHAT I CLAIM IS:—

1. A pipe coupling comprising a socket adapted sealingly to receive the end of the pipe and adapted to be sealingly connected

[Price 4s. 6d.]

- to another component, a resilient sealing ring in the sleeve and a resilient clip adapted to be engaged with the pipe and with said other component so as to tend to twist the pipe about an axis perpendicular to the length thereof.
- 5 2. A pipe coupling as claimed in claim 1 in which the resilient clip is of channel-shaped form, each side of the channel being in the form of an annulus.
- 10 3. A pipe coupling as claimed in claim 1 or claim 2 in which the clip is made of a material harder than the pipe to be coupled so that the clip will bite into the surface of the pipe.
- 15 4. A pipe coupling substantially as hereinbefore described with reference to and as shown in the accompanying drawings.
- MARKS & CLERK,  
Chartered Patent Agents,  
Agents for the Applicant.

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COMPLETE SPECIFICATION

1 SHEET

This drawing is a reproduction of  
the Original on a reduced scale

